

# PATENT ABSTRACTS OF JAPAN

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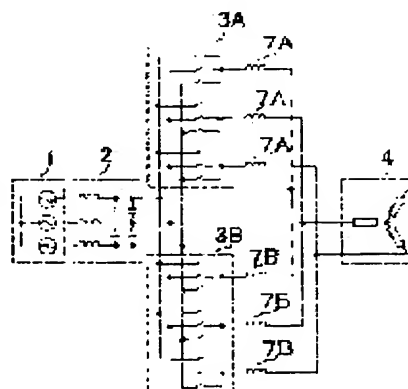
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## (54) MULTIPLEX PWM CYCLOCONVERTER

(57)Abstract:

**PROBLEM TO BE SOLVED:** To solve the problem of a prior art PWM cycloconverter that, since an open circuit of an output terminal and a short circuit on an input side must be avoided, it is theoretically difficult to constitute a high current stack including a snubber, and thereby it is difficult to manufacture a high capacity converter.

**SOLUTION:** The multiplex PWM cycloconverter is arranged such that output terminals of respective phases of p unit converters in an n input m output PWM cycloconverter comprising  $n \times m$  bidirectional switches ( $n$ ,  $m$  and  $p$  are integers of 2 or larger, respectively) are connected in parallel through reactors to have m outputs, as a whole. Each output phase of each unit converter is provided with a current sensor in order to detect a current and an output voltage command for each unit converter is corrected depending on the imbalance of the current. According to the arrangement, a high capacity converter can be obtained and since a capacitor is not required at a DC link part, the volume and cost of the converter can be reduced.



## LEGAL STATUS

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